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**Tetrahedron Letters**

Volume 34, Issue 10 , 5 March 1993, Pages 1665-1668

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# Synthesis of a bicyclic $\gamma$ -lactam dipeptide analogue

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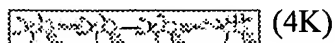
Received 21 December 1992. Available online 15 March 2001.

## Abstract

Synthesis of a conformationally restrained bicyclic  $\gamma$ -lactam dipeptide mimetic, involving a diastereoselective bicyclisation reaction is described.

## Graphical Abstract


The synthesis of a novel conformationally restrained dipeptide analogue, involving a diastereoselective bicyclisation reaction is described.


**Tetrahedron Letters**

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| <input type="checkbox"/> | L13                       | l5 not l12  | 19                         |
| <input type="checkbox"/> | L12                       | melan\$ and L5  | 23                         |
| <input type="checkbox"/> | L11                       | 6551574.pn.   | 1                          |
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| <input type="checkbox"/> | L8                        | melan\$ and L7  | 36                         |
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| <input type="checkbox"/> | L5                        | l1 or l2 or l3 or L4  | 42                         |
| <input type="checkbox"/> | L4                        | 6,214,831.pn. or 6,284,735.pn. or 6,350,760.pn. or 6,376,509.pn. or<br>6,410,548.pn. or 6,451,783.pn. or 6,458,790.pn. or 6,472,398.pn. or<br>6,515,122.pn. or 6,534,503.pn. or 6,579,968.pn.   | 11                         |
| <input type="checkbox"/> | L3                        | 4,239,763.pn. or 4,626,549.pn. or 4,680,289.pn. or 4,937,267.pn. or<br>5,120,713.pn. or 5,639,778.pn. or 5,804,578.pn. or 5,877,182.pn. or<br>5,880,125.pn. or 5,965,565.pn. or 6,033,656.pn. or 6,127,381.pn. or<br>6,127,424.pn. or 6,140,354.pn. or 6,162,805.pn. or 6,191,117.pn. or<br>6,207,699.pn. | 17                         |
| <input type="checkbox"/> | L2                        | 4,148,923.pn.   | 1                          |
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END OF SEARCH HISTORY

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/25574

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/00; G01N 31/00, 33/53; G06F 19/00; C07K 1/00, 14/00; C07D 207/00, 209/02, 241/04, 295/00, 487/02  
 US CL : 435/7.1, 7.6; 530/323, 338, 345, 400; 544/358, 386; 548/ 452, 453, 530, 535; 702/19, 22, 27

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.1, 7.6; 530/323, 338, 345, 400; 544/358, 386; 548/ 452, 453, 530, 535; 702/19, 22, 27

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category *  | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.                                       |
|-------------|---|---|
| X<br>—<br>Y | DIMAIO et al. Synthesis of Chiral Piperazin-2-ones as Model Peptidomimetics. J. Chem. Soc. Perkin Trans. I, 1989, pp. 1687-1689, see entire document, especially page 1687.   | 38, 39, 41, 64, 70<br>1-37, 40, 42-63, 65-68, 74-97         |
| X<br>—<br>Y | US 5,856,326 A (ANTHONY et al) 05 January 1999 (05.01.1999), see entire document, especially column 2, lines 20-59 and Tables 1-18.   | 38, 39, 41, 64, 70, 71<br>1-37, 40, 42-63, 65-68, 75-97     |
| X<br>—<br>Y | CORNILLE et al. Anodic Amide Oxidations: Conformationally Restricted Peptide Building Blocks from the Direct Oxidation of Dipeptides. Tet. Letters, 1994, Vol. 35, No. 38, pp. 6989-6992, see entire document, especially Abstract and Schemes 1 & 4.   | 38, 39, 41, 64, 69, 72, 73<br>1-37, 40, 42-63, 65-68, 75-97 |
| X<br>—<br>Y | MOORE et al. A Rapid Screening System to Determine Drug Affinities for the Intestinal Dipeptide Transporter 2: Affinities of ACE Inhibitors. Int. J. Pharmaceutics, 2000, Vol. 210, pp. 29-44, see entire document, especially Figure 1 and Tables 1-5. | 38, 39, 41, 64, 72<br>1-37, 40, 42-63, 65-68, 75-97         |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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Date of the actual completion of the international search

12 December 2002 (12.12.2002)

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